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ABSTRACT

A continuous process for the production of dried superabsorbent polymers (SAPs) the polymerization reaction is carried out either in an initially homogenous aqueous monomer solution (bulk aqueous solution polymerization) or in a heterogeneous water-in-oil reactant mixture (reverse phase suspension or emulsion polymerization) within a continuous closed polymerization reactor, then the resulting polymer gel is dried within a continuous moved bed in a closed dryer, avoiding the needs of standard intermediate maturity tank(s).